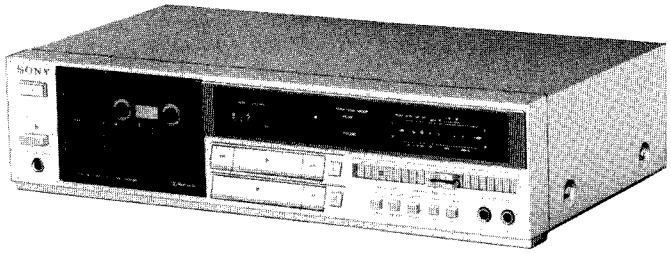
TC-FX320

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

SILVER MODEL SHOWN.

SPECIFICATIONS

Tape Transport Mechanism Type	TCM-150V4

Recording system
4-track 2-channel stereo
Fast-forward and rewind time
Approx. 100 sec. (with C-60 cassette)
Bias frequency 105 kHz
Signal-to-noise ratio (NAB, at peak level)

Cassette / Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	55 dB	65 dB	71 dB
TYPE II (Sony UCX)	55 dB	63 dB	69 dB
TYPE I (Sony HF-S)	52 dB	61 dB	67 dB

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Total harmonic distortion
1.0% (with Sony METAL-ES cassette)
Frequency response
DOLBY NR OFF
- With TYPE IV cassette (Sony METAL-ES)
  20 - 17,000 Hz
  30 - 16,000 Hz (±3 dB)
  30 - 13,000 Hz (±3 dB, 0 VU recording)
  30 - 16,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
  20 - 17,000 Hz
  30 - 14,000 Hz (±3 dB)
  30 – 14,000 Hz (DIN)
- With TYPE I cassette (Sony HF-S)
  20 - 16,000 Hz
  30 - 13,000 Hz (DIN)

Wow and flutter 0.05% WRMS (NAB)
±0.14% (DIN)
Inputs
Microphone inputs (phone jacks)
Sensitivity 0.25 mV (–70 dB)
For a low impedance microphone
Line inputs (phono jacks)
Sensitivity 77.5 mV (–20 dB)
Input impedance 47 kilohms
Outputs
Line outputs (phono jacks)
Output level 0.44 V (–5 dB) at load impedance 4.7 kilohms
Load impedance over 10 kilohms
Headphone output (stereo phone jack)
Output level –28 dB at a load impedance of 8 ohms

– Continued on next page –

MICROFILM

MC-Service

STEREO CASSETTE DECK

SONY

TC

General

Power requirements
- AEP model: 220 V ac, 50/60 Hz (240 V ac adjustable by authorized Sony personnel)
- UK model: 240 V ac, 50 Hz (220 V ac adjustable by authorized Sony personnel)
- US, Canadian model: 120 V, 60 Hz
- E model: 120, 220 or 240 V ac adjustable, 50/60 Hz

Power consumption: 12 watts

Dimensions: Approx. 430 × 105 × 245 mm (w/h/d) (17 × 4 1/4 × 9 3/4 inches) including projecting parts and controls

Weight: Approx. 3.6 kg (7 lbs 15 oz)

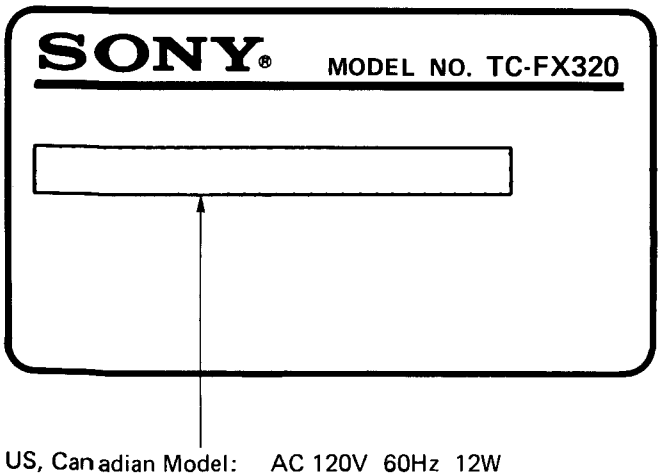
While the information given is correct at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

MODEL IDENTIFICATION

– Specification Labels –



US, Canadian Model:	AC 120V 60Hz 12W
AEP, G-AEP Model:	AC 220V ~ 50/60Hz 12W
UK Model:	AC 240V ~ 50/60Hz 12W
E Model:	AC 120, 220, 240V ~ 50/60Hz 12W

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

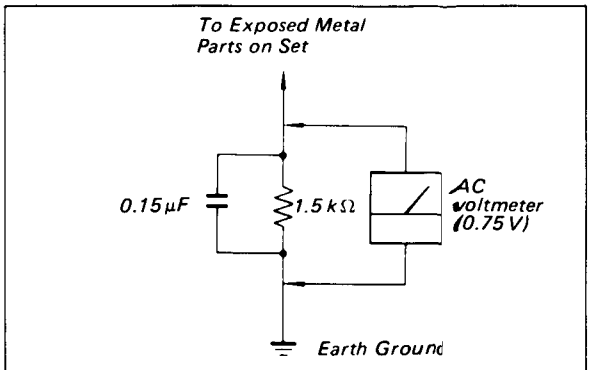
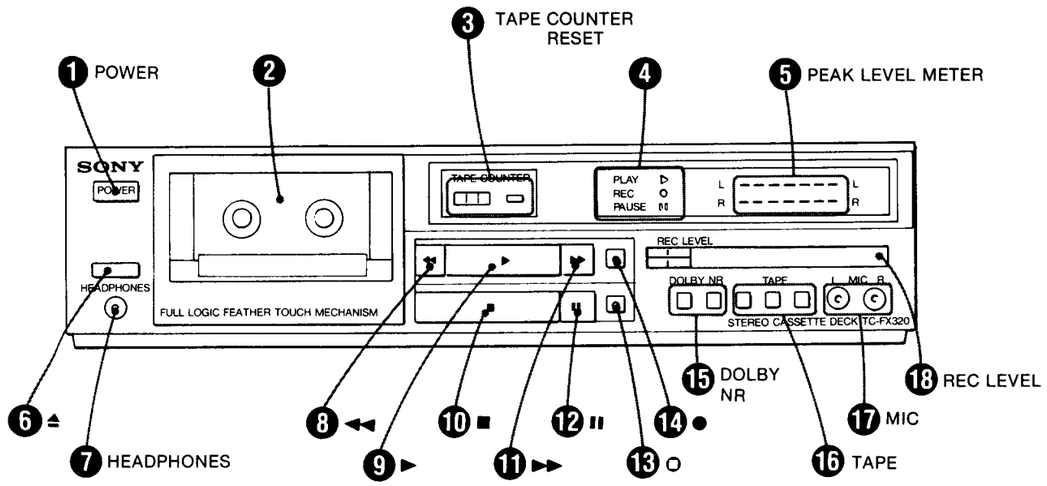


Fig. A. Using an AC voltmeter to check AC leakage.

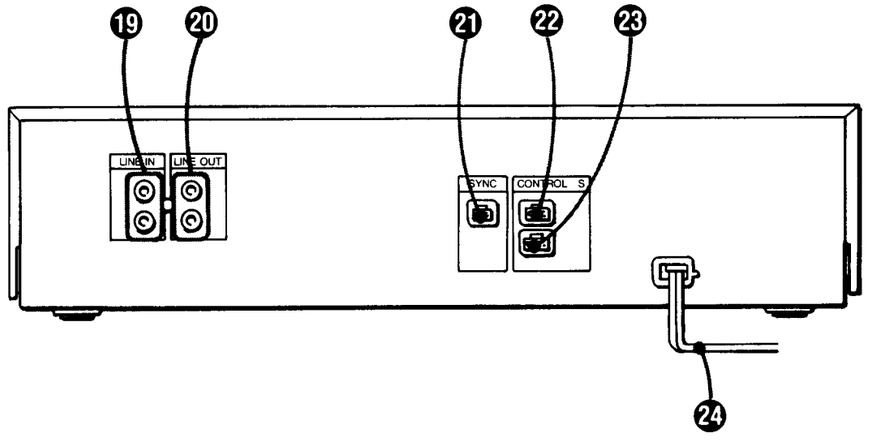
SECTION 1
OUTLINE

1-1. FUNCTION OF CONTROLS

A



B



Each number in the text is keyed to that of the illustrations on pages 3.

Front panel (Fig. A)

❶ POWER switch

❷ Cassette holder

❸ TAPE COUNTER and RESET button
The tape counter provides a numerical reference point while recording which can be used to index a recorded cassette. To reset to zero, press the RESET button.

❹ Function indicators

❺ PEAK LEVEL METERs
These meters show the peak input level of each channel during recording, and recorded levels in the playback mode.

❻ ≜ (eject) button
Press this button to open the cassette holder.

❼ HEADPHONES jack (stereo phone jack)

❽ ◀◀ (rewind) key
Press this key to advance the tape rapidly to the left. It is also used for the auto play and review function.
tions.

❾ ▶ (playback) key
Press this key to playback the cassette. To record, press this key while holding the ● key down. The tape is transported to the right.

❿ ■ (stop) key

⓫ ▶▶ (fast-forward) key
Press this key to advance the tape rapidly to the right. It is also used for the cue function.
tions.

⓬ II (pause) key
Press this key to stop the tape running for a moment during recording or playback. This key is also used for the cue and review functions.

⓭ O (record muting) key
Press this key to eliminate unwanted material and to insert a blank space during recording.

⓮ ● (record) key
Press this key together with the ▶ key to start recording.

⓯ DOLBY NR* switch
For recording or playback with Dolby B-type system, set the DOLBY NR switch to B. For recording or playback with Dolby C-type NR system, set it to C. For recording without Dolby NR system, set it to OFF.

*"Dolby" and the double-D symbol are trade marks of the Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

The Dolby NR system reduces tape hiss and improves the signal-to-noise ratio at low-level high-frequency signals.

⓰ TAPE select buttons
Depress one of the TAPE select buttons, depending on which type of tape you use. The optimum bias current adjustment for recording and the optimum equalization adjustment for both recording and playback are set.

⓱ MIC jacks (phone jack)
Any low-impedance microphone equipped with a phone plug may be used.

⓲ REC LEVEL (recording level) controls
These controls adjust the recording level.

Rear panel (Fig. B)

⓳ LINE IN (line input) jacks (phono jack)
Accept tape outputs from an amplifier for tape recording and line outputs from another tape deck when dubbing a tape from that unit.

⓴ LINE OUT (line output) jacks (phono jack)
Accept tape inputs from an amplifier for playing back a tape and line inputs from another tape deck for dubbing a tape onto that unit.

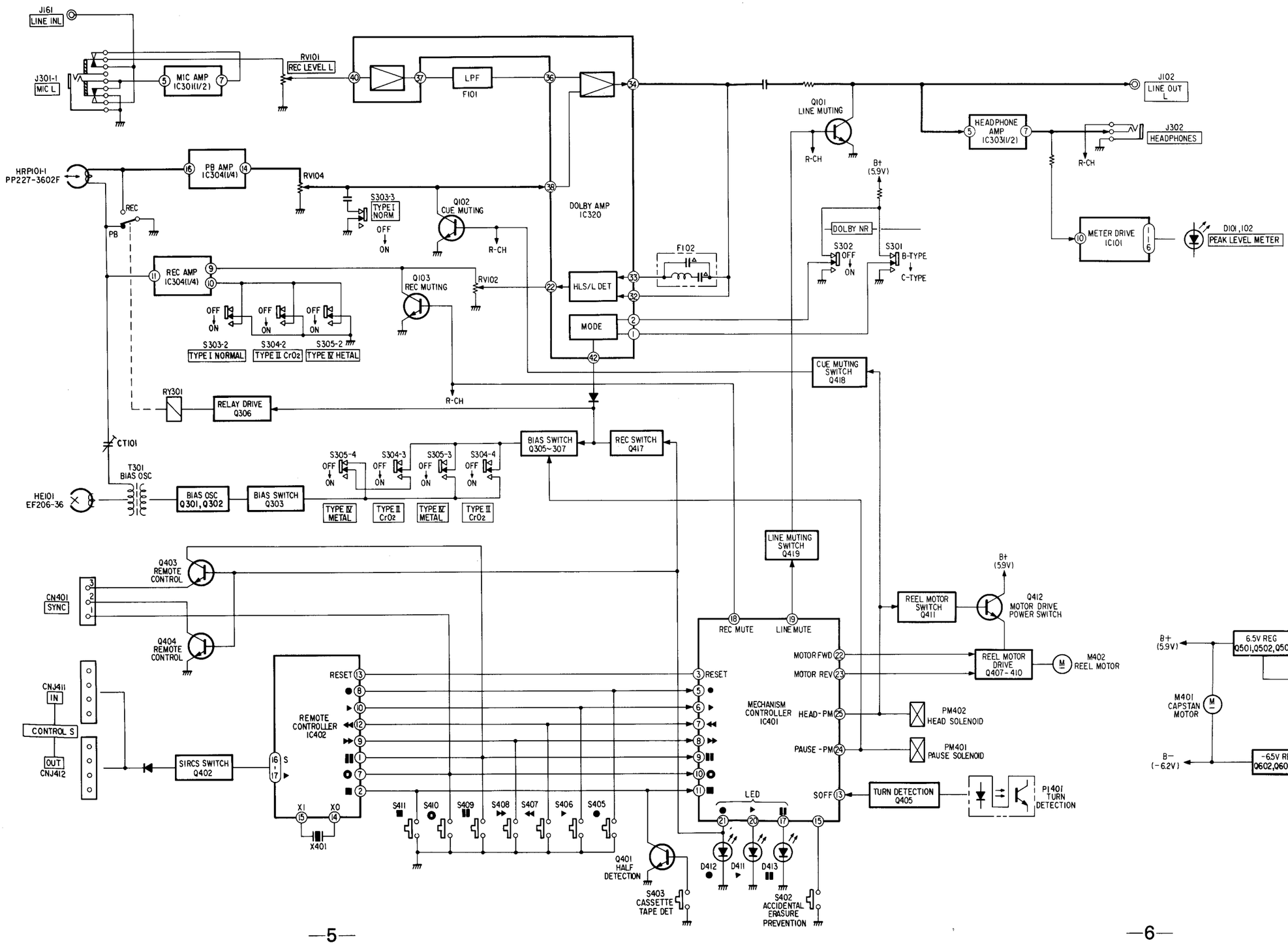
㉑ SYNC connector (3-pin)
For synchro recording, connect to the SYNC connector of the turntable system. For further details, refer to the instruction manual of the Sony turntable system.

㉒ CONTROL S IN connector
Connect to the CONTROL S OUT connector of Sony audio equipments equipped with a 4-pin remote control connector.

㉓ CONTROL S OUT connector
Connect to the CONTROL S IN connector of Sony audio equipments equipped with a 4-pin remote control connector.

㉔ AC power cord

1-2. BLOCK DIAGRAM



SECTION 2
DISASSEMBLY

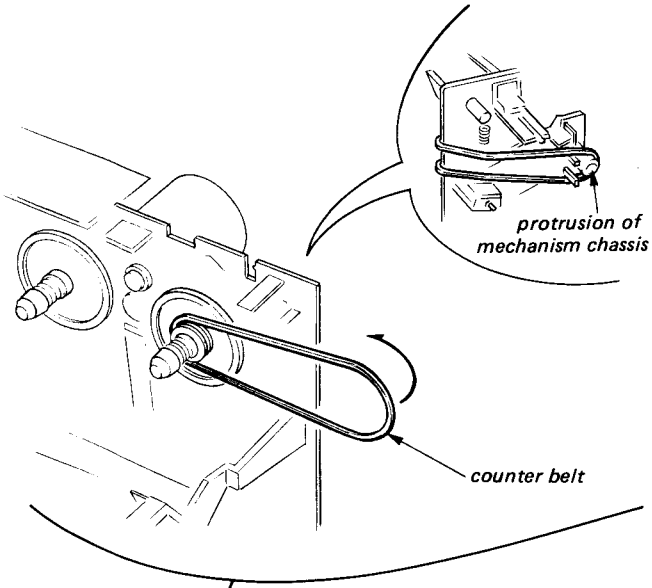
Note: Follow the disassembly procedure in the numerical order given.

CASE

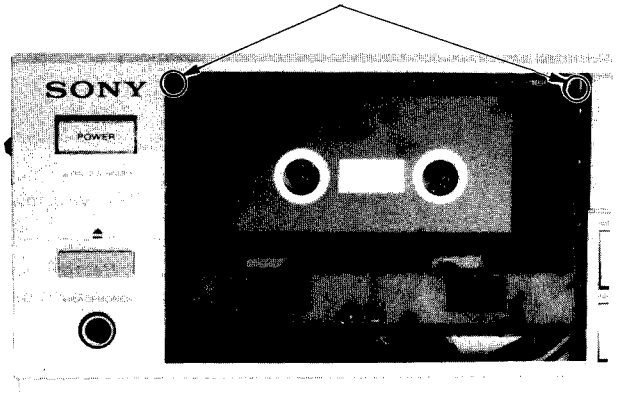
Remove four (4) screws and case.

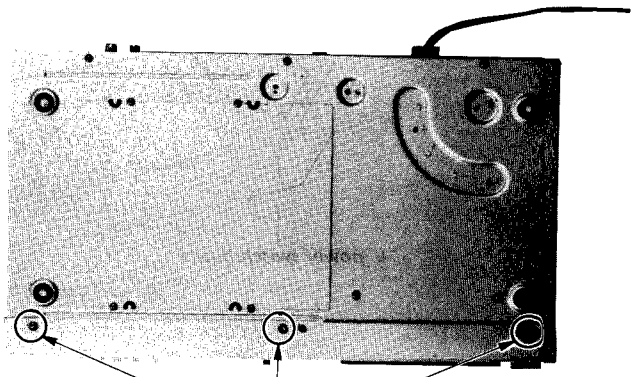
FRONT PANEL

❶ *Remove counter belt and temporarily hang it on the protrusion of the mechanism chassis.*

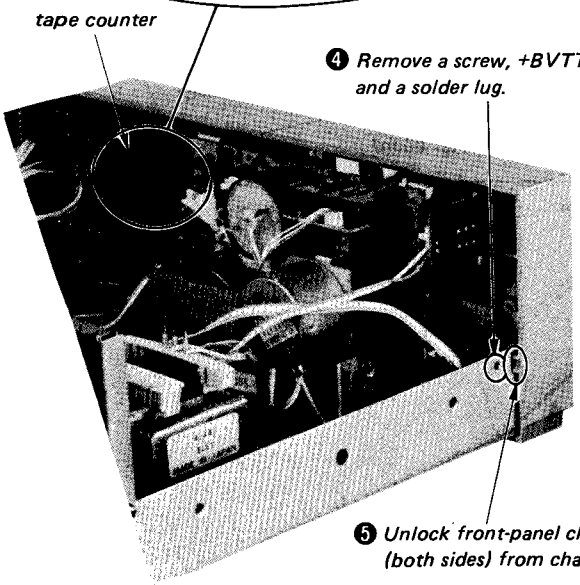


❷ *Remove screws, +BVTT3 x 6 (two).*





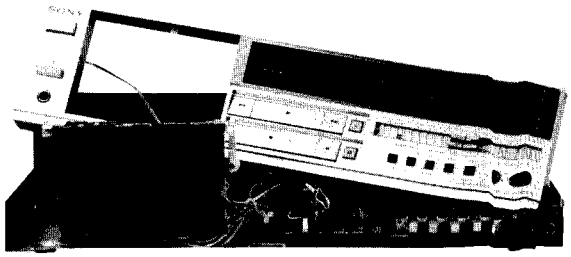
❸ *Remove screws, +BVTT3 x 6 (three).*



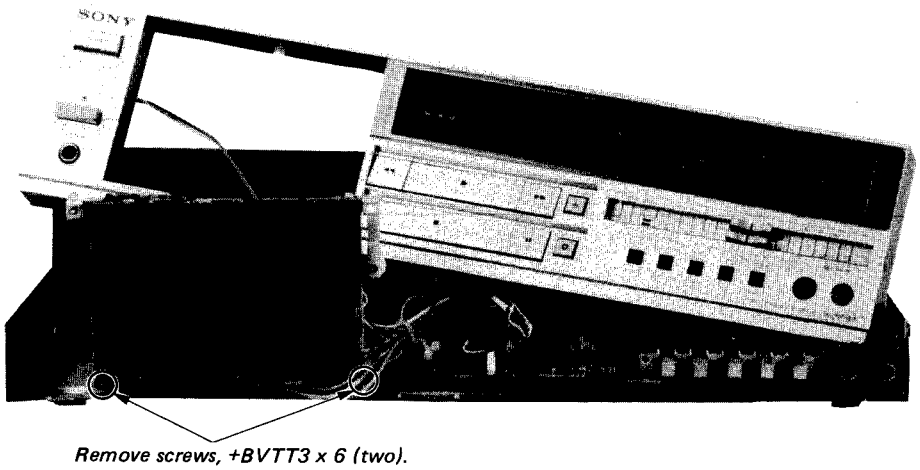
❹ *Remove a screw, +BVTT3 x 6, and a solder lug.*

❺ *Unlock front-panel claws (both sides) from chassis.*

❻ *Pull front panel forward. Take care not to break lead wires extracting from PC boards. Front panel contains six (6) PC boards.*



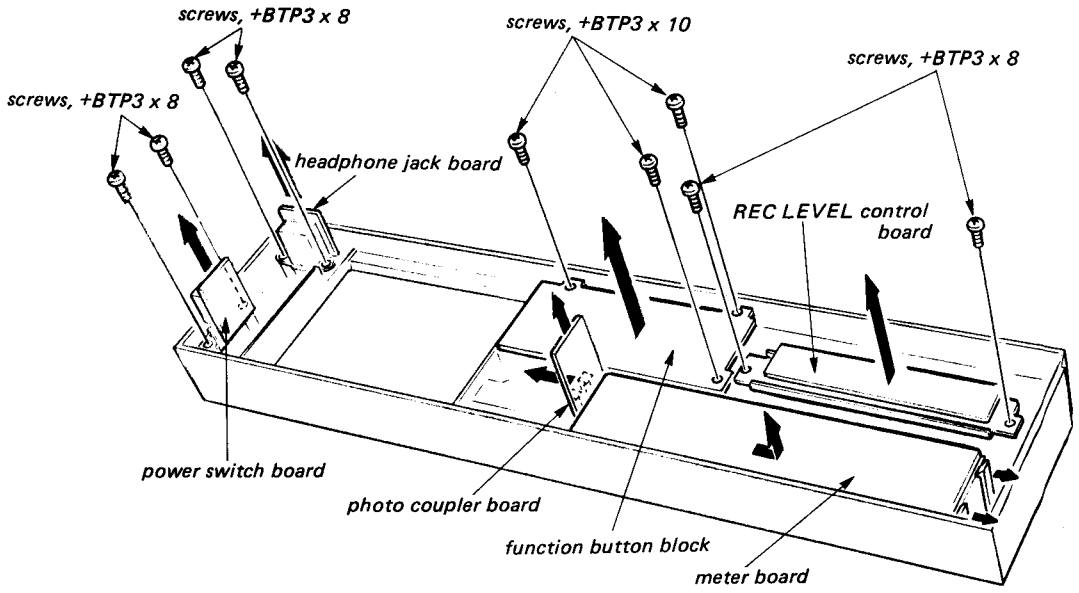
DECK MECHANISM



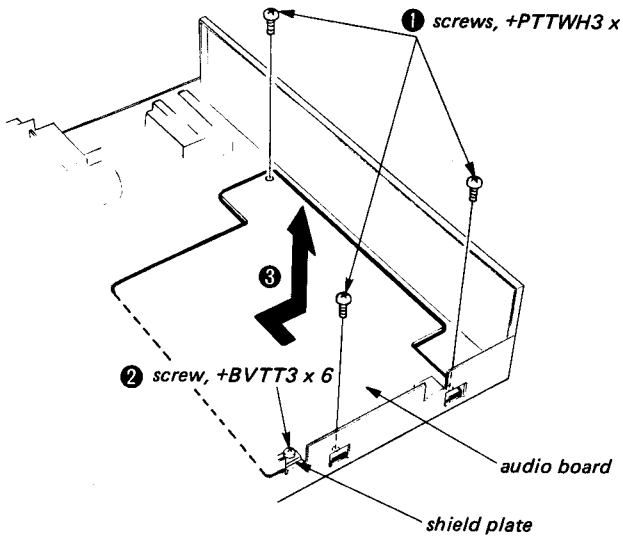
Remove screws, +BVTT3 x 6 (two).

PC BOARDS FROM FRONT PANEL

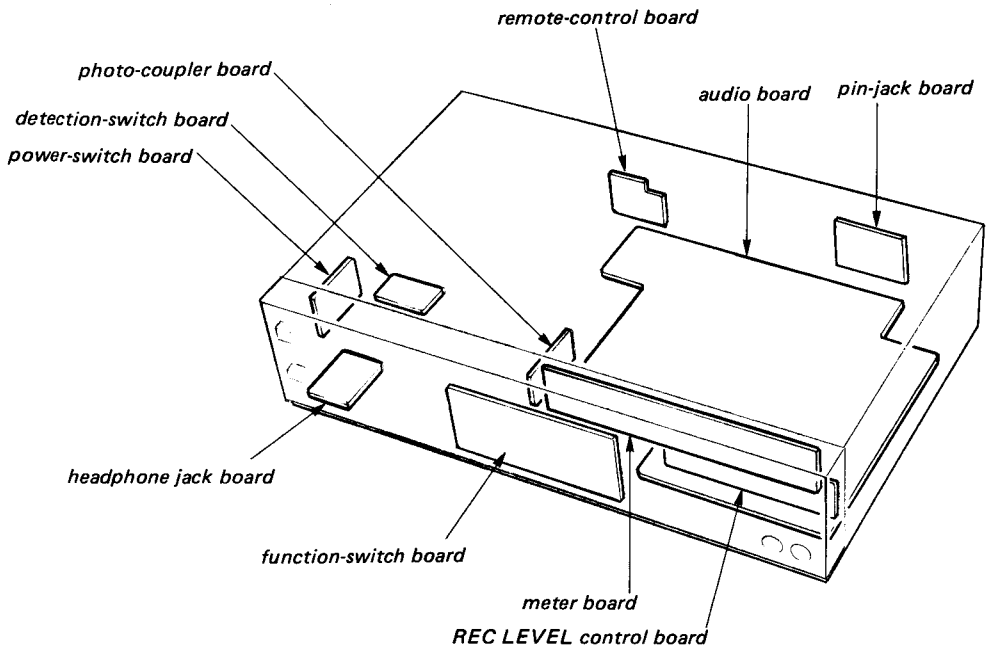
Remove appropriate screws or unlock apprcpriate claws from PC boards as shown.



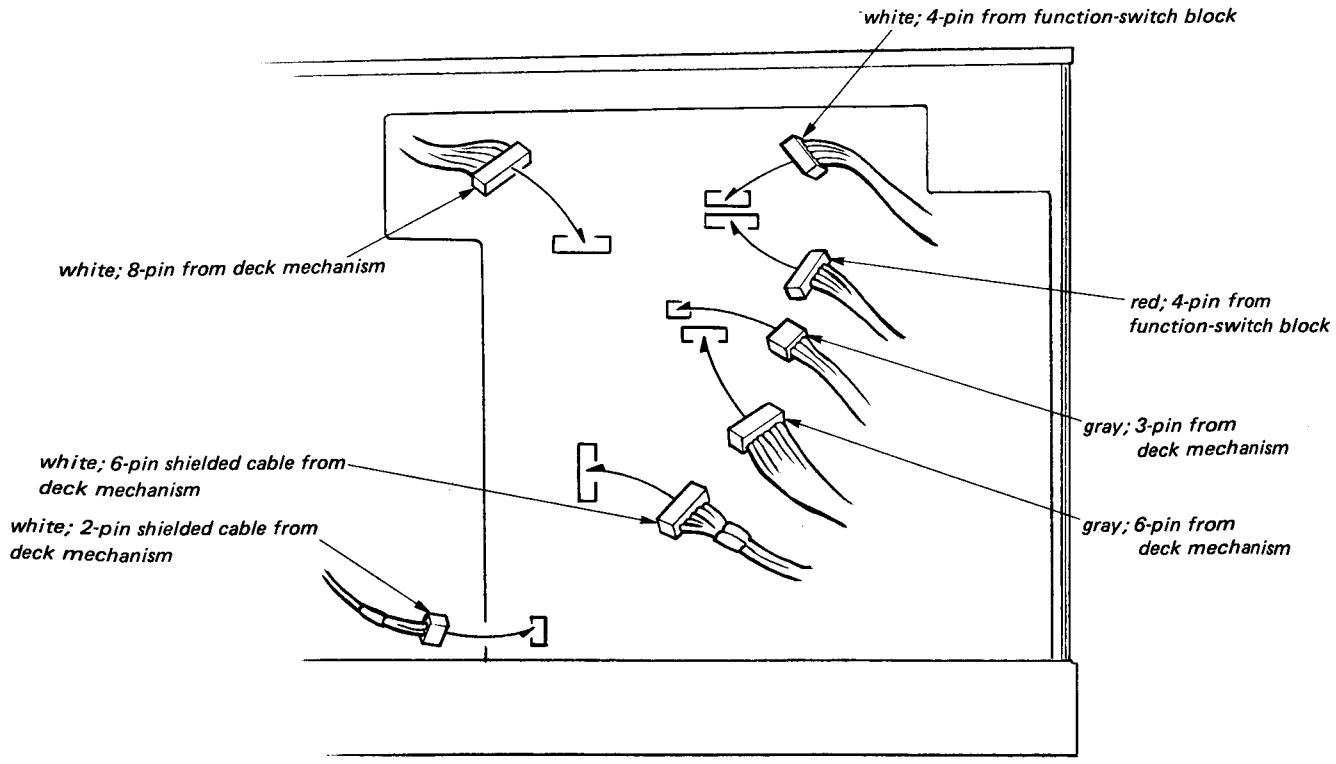
AUDIO BOARD



LOCATION OF PRINTED-CIRCUIT BOARDS



RECONNECTING CONNECTORS


white; 4-pin from function-switch block
white; 8-pin from deck mechanism
red; 4-pin from function-switch block
gray; 3-pin from deck mechanism
white; 6-pin shielded cable from deck mechanism
white; 2-pin shielded cable from deck mechanism
gray; 6-pin from deck mechanism

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

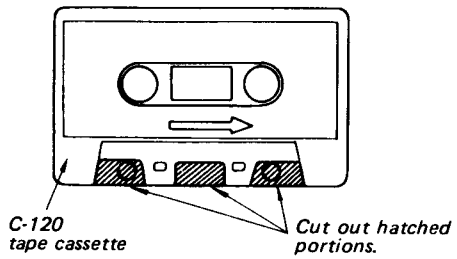
1. Clean the following parts with a denatured-alcohole-moistened swab:

   record/playback head — pinch roller
   erase head — rubber belts
   capstan

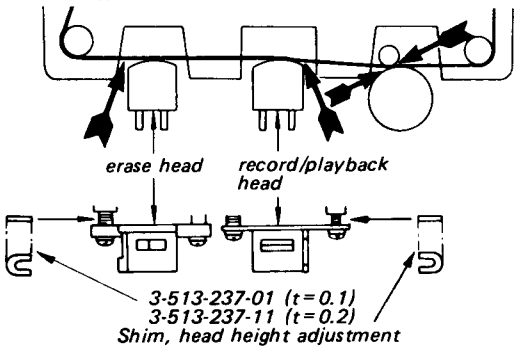
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Head Height Adjustment

1. Prepare an adjustment cassette as shown below, or mirror cassette.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at the portions shown by the arrows.



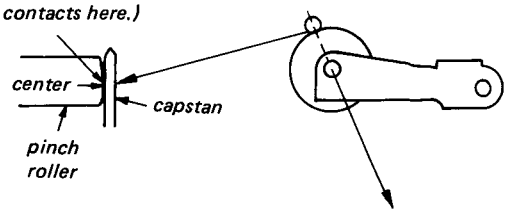
Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	28 – 60 g-cm (0.41 – 0.8 oz-inch)
Back Tension	CQ-102C	2.5 – 6 g-cm (0.03 – 0.08 oz-inch)
Fast Forward and Rewind	CQ-201B	80 – 150 g-cm (1.1 – 2.0 oz-inch)

Pinch Roller Pressure Measurement

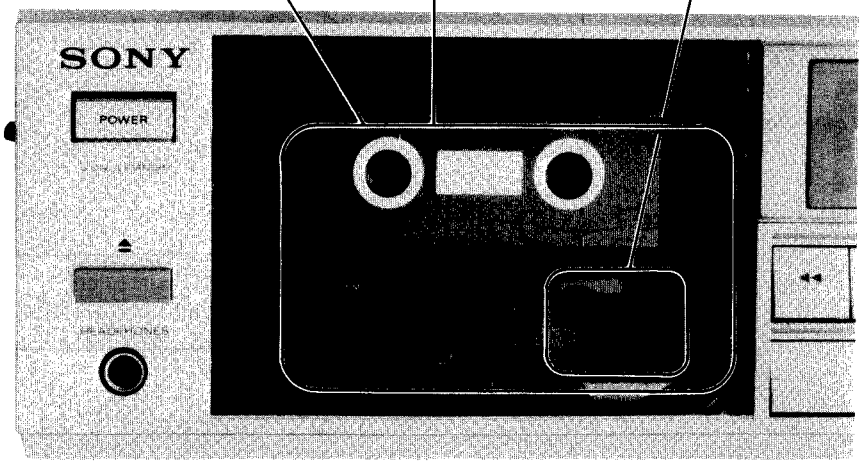
– Playback Mode –

❷ *Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating. (The capstan should first contacts here.)*



❶ *tension gauge*

200–300 g-cm (2.77–4.16 oz-inch)



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- TAPE switches are automatically set according to the tape.

Tape	TAPE Indicator
CS-17	TYPE I : NORMAL
CS-26	TYPE II : CrO_2
CS-40(CS-412)	TYPE IV : METAL

- Switches and controls should be set as follows unless otherwise specified.

  DOLBY NR switch: OFF

- Standard Record:

  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

	LINE IN
source impedance	10kΩ
input level	0.25V (−10dB)

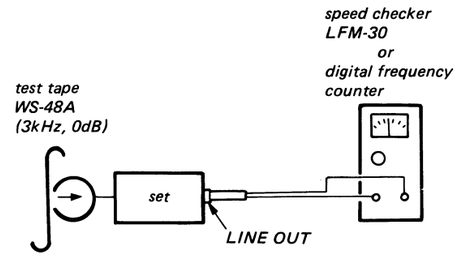
Standard Output Level

	LINE OUT
load impedance	47kΩ
output level	0.435V (−5dB)

Speed Adjustment

Procedure:

Mode: playback



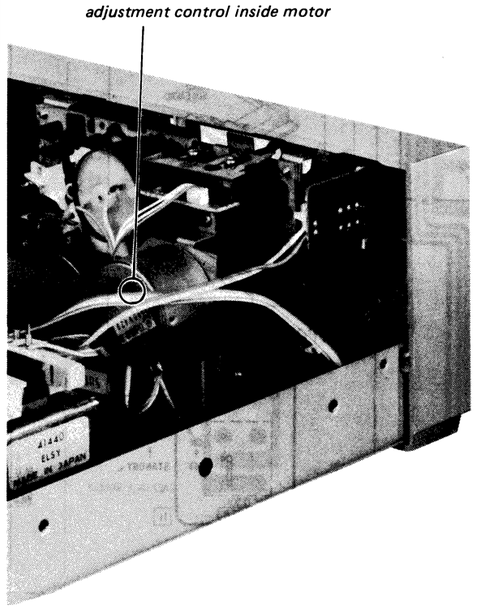
Specification:

Speed checker	Digital frequency counter
−1 – +1%	2,970 – 3,030Hz

Frequency difference between the beginning and the end of the tape should be within 0.8% (25Hz).

Adjustment Location:

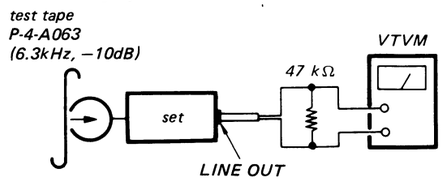
– capstan motor –



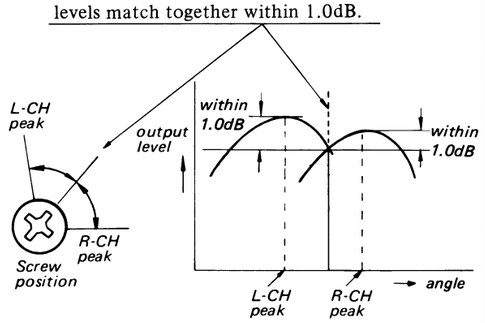
Record/playback Head Azimuth Adjustment

Procedure:

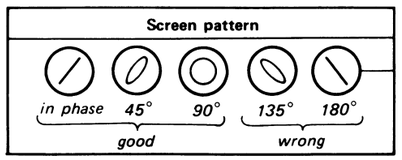
1. Mode: playback



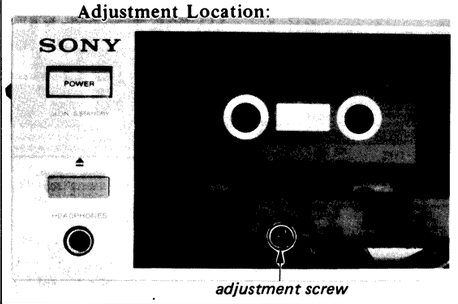
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1.0dB.



3. Phase Check
   Mode: playback



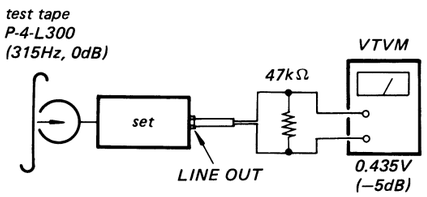
Adjustment Location:



Playback Level Adjustment

Procedure:

Mode: playback



Adjust RV104 (L-CH) and RV204 (R-CH).

Specification:

LINE OUT level: 0.46 – 0.42V
(−4.5 – −5.5dB)
Level difference between channels:
less than 0.5dB (0.05V)
Check that the LINE OUT level does not change in playback mode while chaging the mode from playback to stop several times.

Adjustment Location:

– audio board –

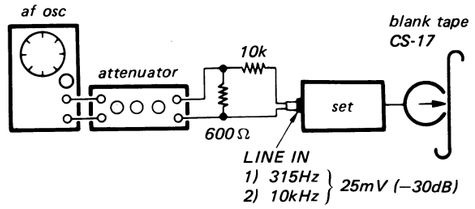
Record Bias Adjustment

Setting:

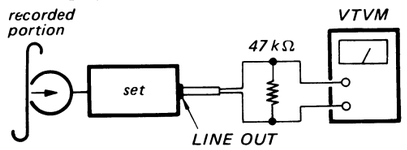
REC LEVEL control: standard record
(See page 11)

Procedure:

1. Mode: record



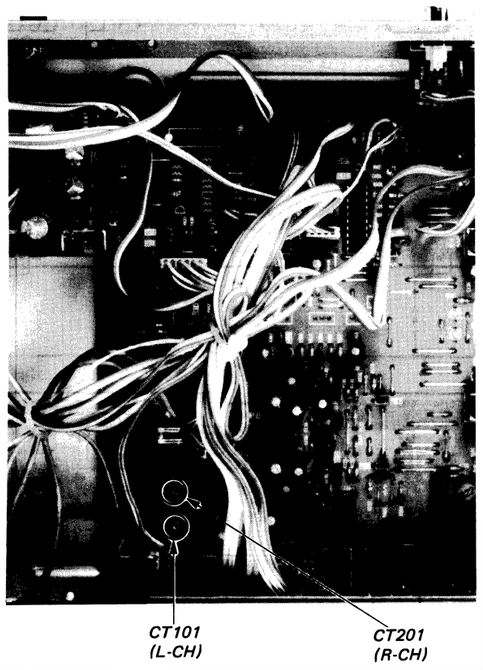
2. Mode: playback



ADjust CT101 (L-CH) and CT201 (R-CH) so that the LINE OUT level of 10kHz signal is 0dB ±0.5dB relative to that of 315Hz.

Adjustment Location:

– audio board –



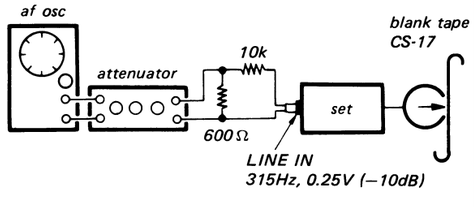
Record Level Adjustment

Setting:

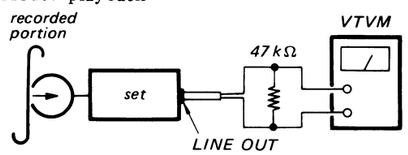
REC LEVEL control: standard record
(See page 11)

Procedure:

1. Mode: record



2. Mode: playback



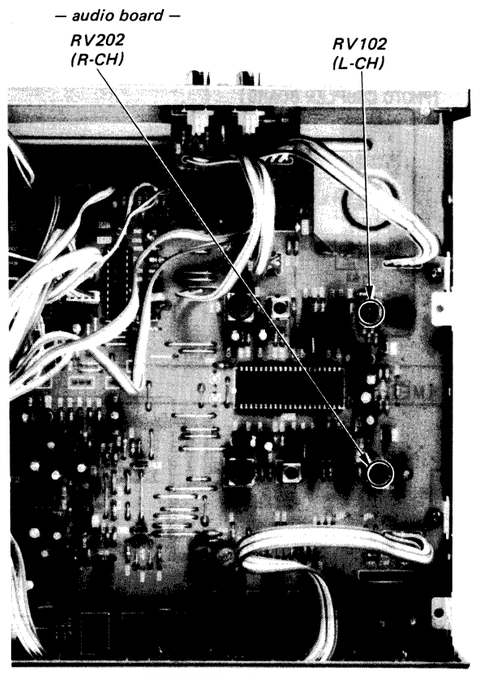
Adjust RV102 (L-CH) and RV202 (R-CH).

Specification:

LINE OUT level: 0.46 – 0.42V
(−4.5 – −5.5dB)

Adjustment Location:

– audio board –

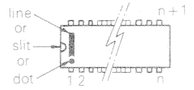


4-1. MOUNTING DIAGRAM

— Conductor Side —

Semiconductor Lead Layouts

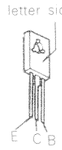
CX10032A
CX20187
IR2E02
M50761-417P
M5218L
TC9310N-071



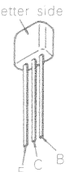
(Top view)

DTA114ES
DTA144WS
DTC114ES
2SB808
2SC2603F
2SD1012

2SB731
2SD809-K

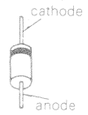


2SA1175
2SD1020

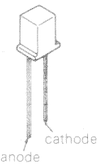


2SC945

HZ6A3L
HZ6B3L
1SS202-1
10E2
11E2

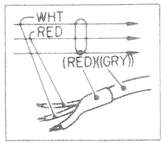


GL-9PG4

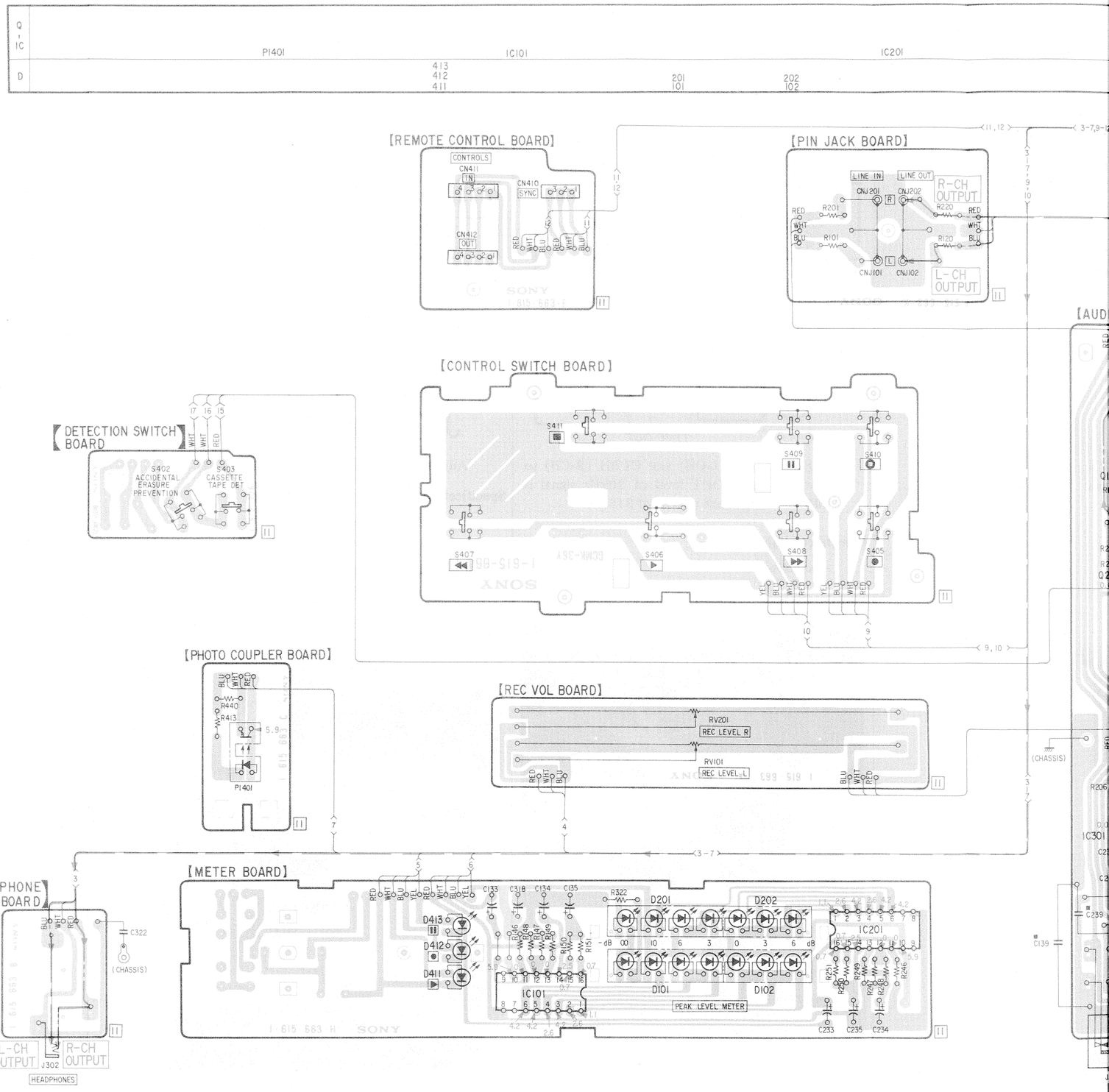


Note:

- Color code of sleeving over the end of the jacket.



- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]+ : indicates side identified with part number.
- ▬▶ : signal path
- ▬▶ : L-CH signal path
- ▬▶ : R-CH signal path
- ▨ : B + pattern

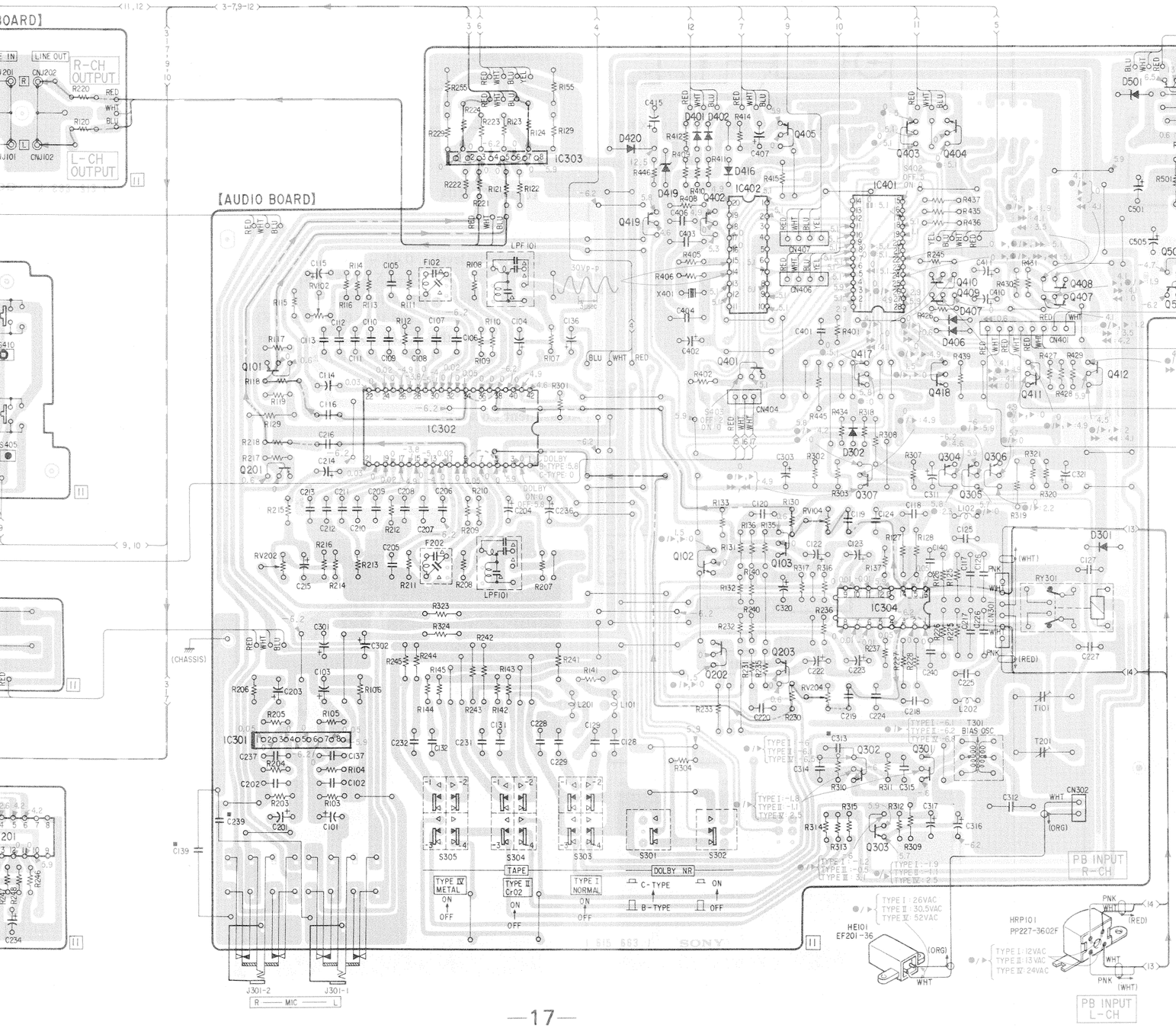


11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

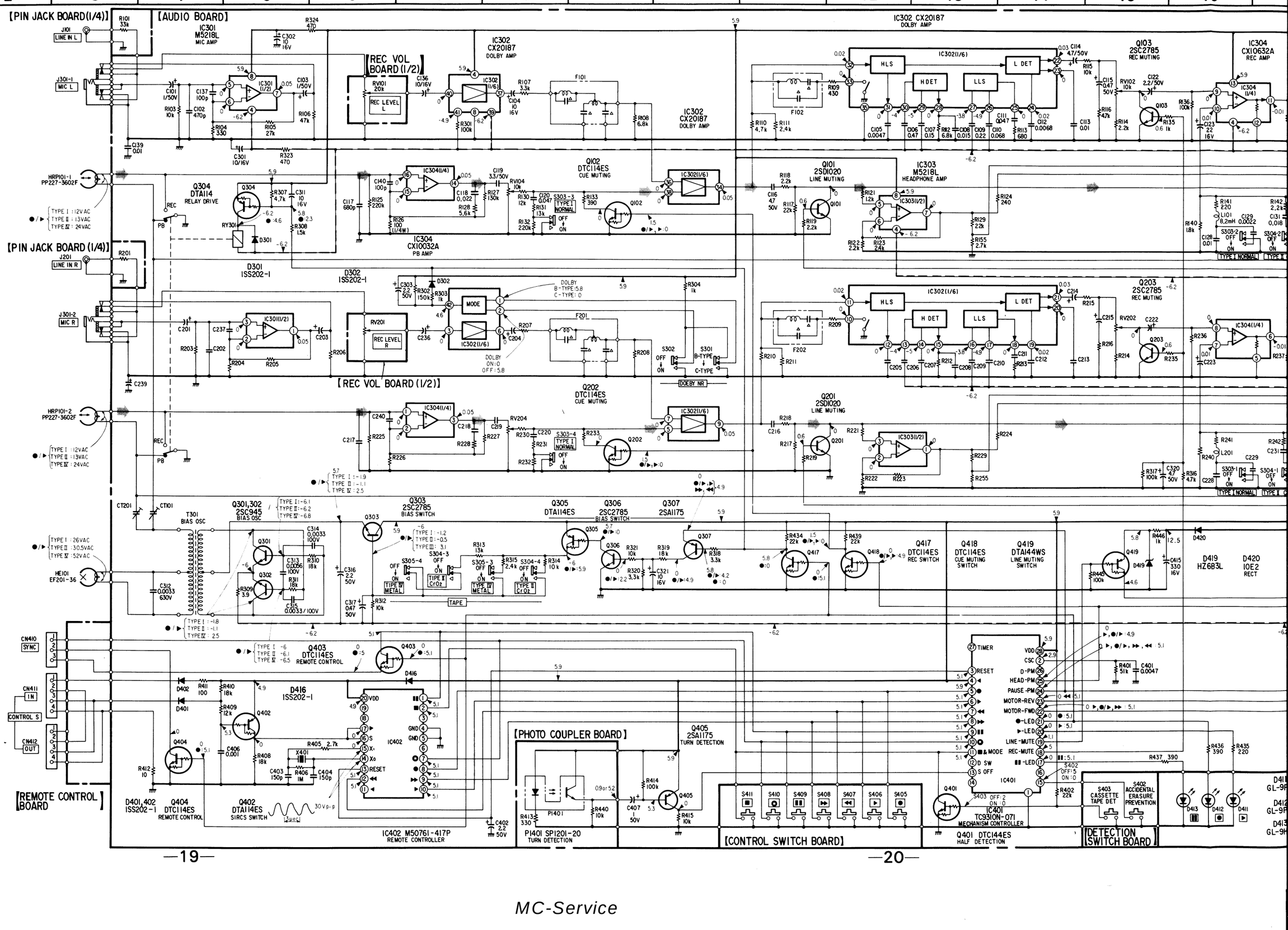
A B C D E F G H I J

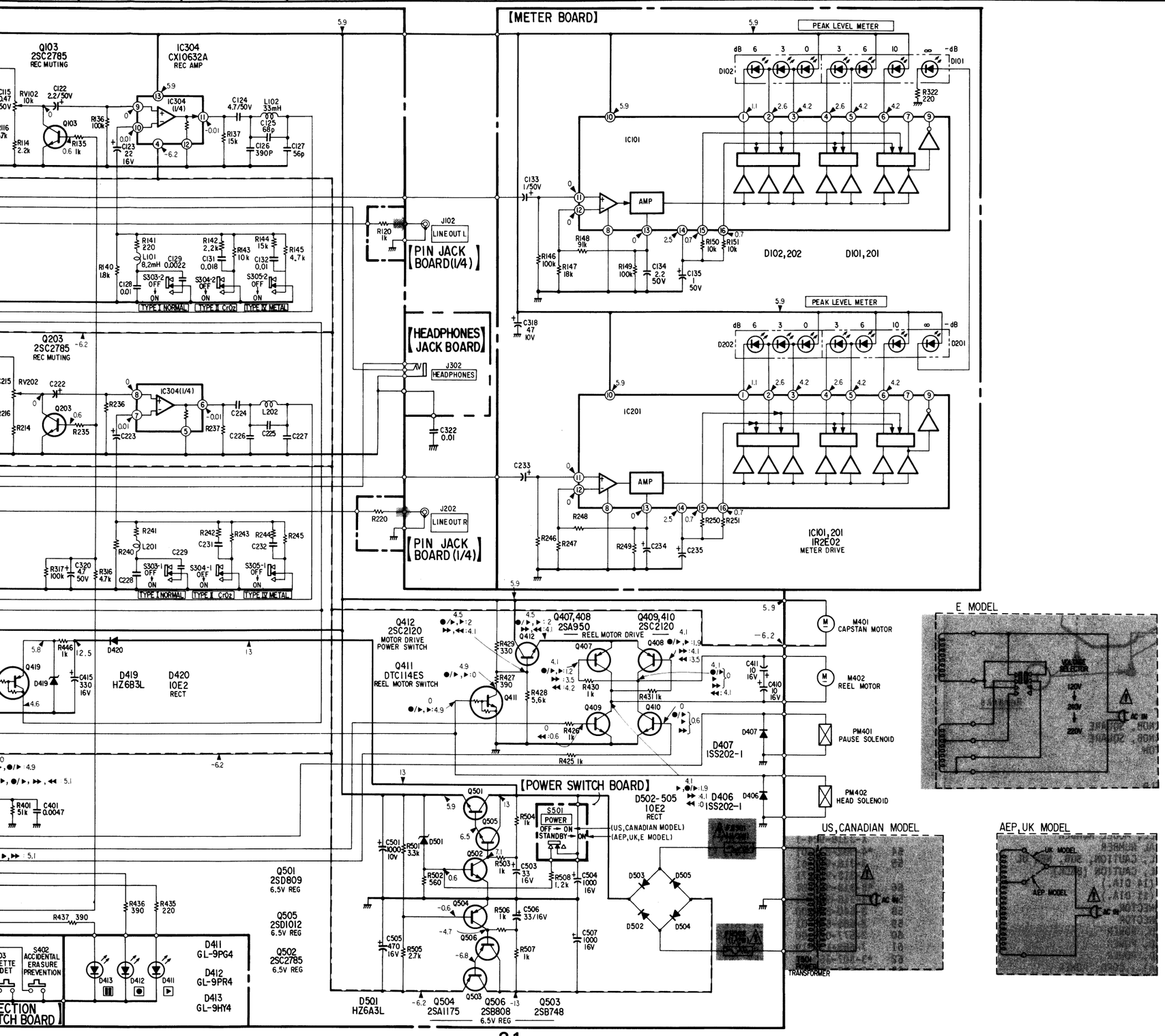
IC201 101 201 IC301 IC303 IC302 419 402 IC402 405 401 102 202 103 203 IC401 403 404 410,409 417 307 418 304,305,306 IC304 302,303,301 411 408,407 412 505 502 506 504 503 501 Q + IC

420 419 401,402, 416 302 407 406 501 301 502 504 503 505 D



4-2. SCHEMATIC DIAGRAM





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⇨ : signal path.
- Components for right channel have same values as for left channel. Reference numbers are coded from 201.
- △ : internal component.
- ⏦ : fusible resistor.
- ▬▬ : B+ bus.
- ▬ ▬ ▬ : B− bus.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50kΩ/V).
- ▶ : PLAY
  ▶▶ : FF
  ◀◀ : REW
  ■ : STOP
  ● : RECORD
  NO MARK : COMMON
- Waveforms are taken to ground by using oscilloscope. Voltage variations may be noted due to normal production tolerances.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

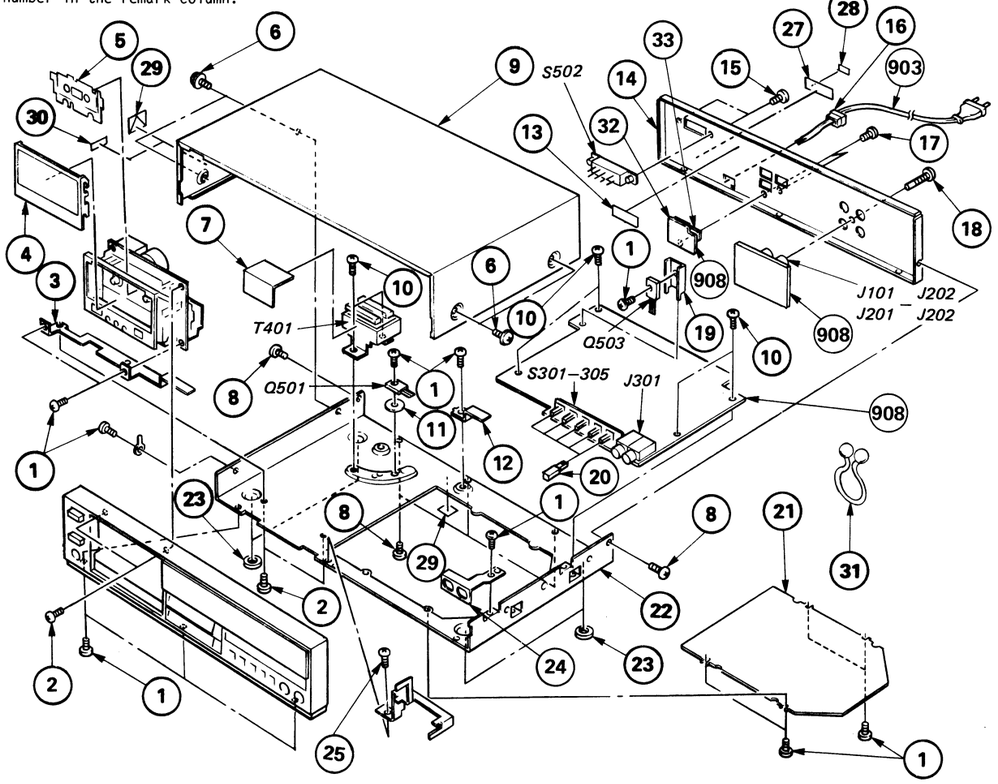
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

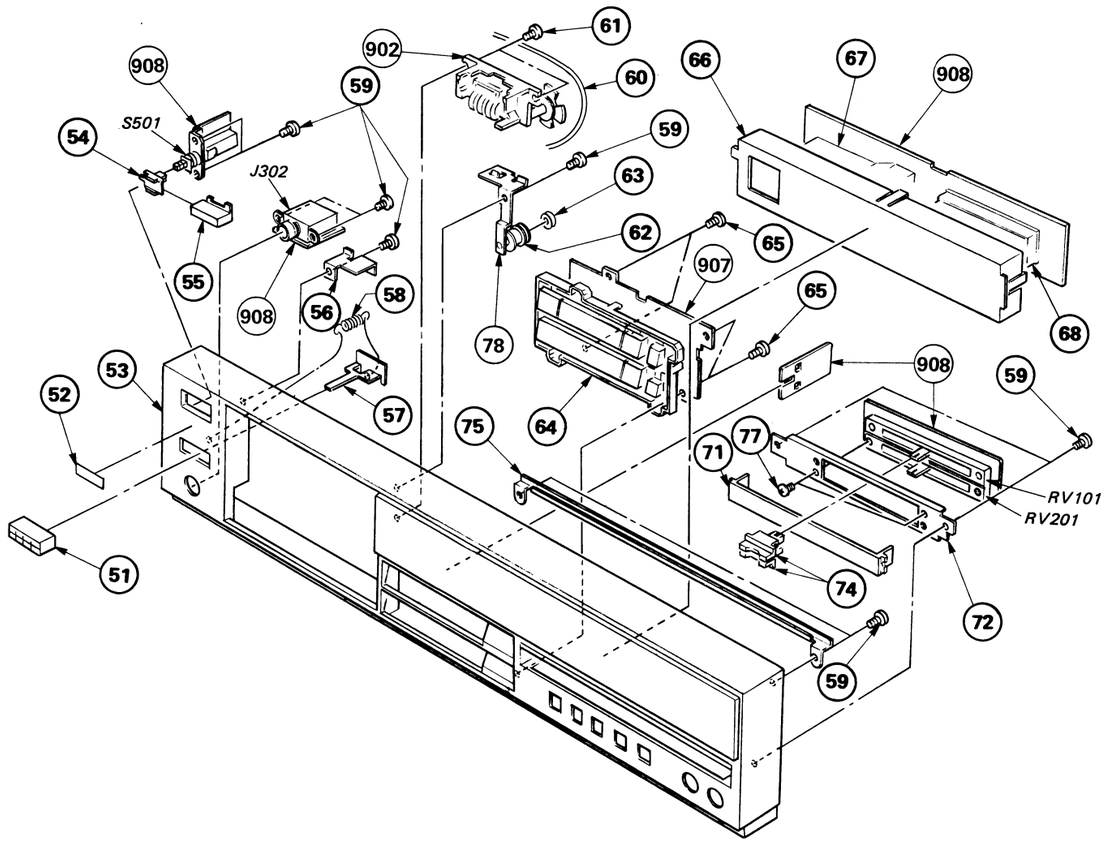
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1)



No.	Part No.	Description	Remarks
1	7-685-871-01	SCREW +BVTT 3X6 (S)	
2	7-685-751-09	SCREW +BVTT 3X6 (S)	
3	*3-318-975-01	BRACKET (A), MD	
4	X-3318-919-1	(SILVER)...LID ASSY, CASSETTE	
	X-3318-920-1	(BLACK)....LID ASSY, CASSETTE	
5	3-313-292-21	RETAINER, CASSETTE	
6	4-889-321-01	(SILVER)...SCREW	
	4-889-321-11	(BLACK)....SCREW	
7	9-911-863-XX	SHEET, INSULATING	
8	7-685-752-04	SCREW +BVTT 3X8 (S)	
9	4-904-474-21	(SILVER)...CASE	
	4-904-474-31	(BLACK)....CASE	
10	3-703-249-01	SCREW, S TIGHT, +PTTWH 3X6	
11	3-572-365-11	SHEET, INSULATING (A)	
12	*3-318-963-01	BRACKET, AUDIO PC BOARD	
13	*3-701-030-00	LABEL, SERIAL NUMBER	
14	*3-307-530-83	(E).....PLATE, JACK	
	*3-307-530-73	(US,Canadian)...PLATE, JACK	
15	7-685-533-19	(E)...SCREW +BTP 2.6X6 TYPE 2 N-S	
16	3-703-571-00	(US,Canadian)...BUSHING (S)(4516), CORD	
	3-703-244-00	(AEP,UK,E).....BUSHING (2104), CORD	
17	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
18	3-703-473-00	SCREW, TERMINAL	
19	*3-312-615-11	HEAT SINK	
20	4-855-804-11	(BLACK)...KNOB, SQUARE	
	4-855-804-51	(GRY).....KNOB, SQUARE	
21	*3-318-946-01	PLATE, BOTTOM	
22	*3-318-948-13	CHASSIS	
23	3-576-731-00	FELT (H)	
24	*3-318-973-01	PLATE, SHIELD	
25	7-682-546-04	SCREW +BVTT 3X5 (S)	
26	*3-318-969-01	RETAINER, PC BOARD	
27	*3-318-979-01	(AEP)...LABEL, MODEL NUMBER	
	*3-318-981-01	(UK)....LABEL, MODEL NUMBER	
28	*4-302-759-00	LABEL, SERIAL NUMBER	
29	*3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL	
30	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
31	3-315-159-01	PURSE LOCK (14 DIA.)	
31	3-701-417-00	PURSE LOCK (11 DIA.)	
32	*3-322-818-01	HOLDER, CONNECTOR	
33	*3-322-819-01	HOLDER, CONNECTOR	
903	⚠1-551-472-00	(E).....CORD, POWER	
	⚠1-551-908-11	(AEP)...CORD, POWER	
	⚠1-556-562-00	(UK)....CORD, POWER	
	⚠1-551-628-00	(US,Canadian)...CORD, POWER	
907	*1-615-664-11	PC BOARD, CONTROL SWITCH	
908	*A-2056-273-A	PC BOARD ASSY, AUDIO, MOUNTED (INCLUDING REC VOL,HEADPHONES JACK,PHOTO COUPLER, POWER SWITCH, REMOTE CONTROL,METER AND PIN JACK BOARDS)	

(2)

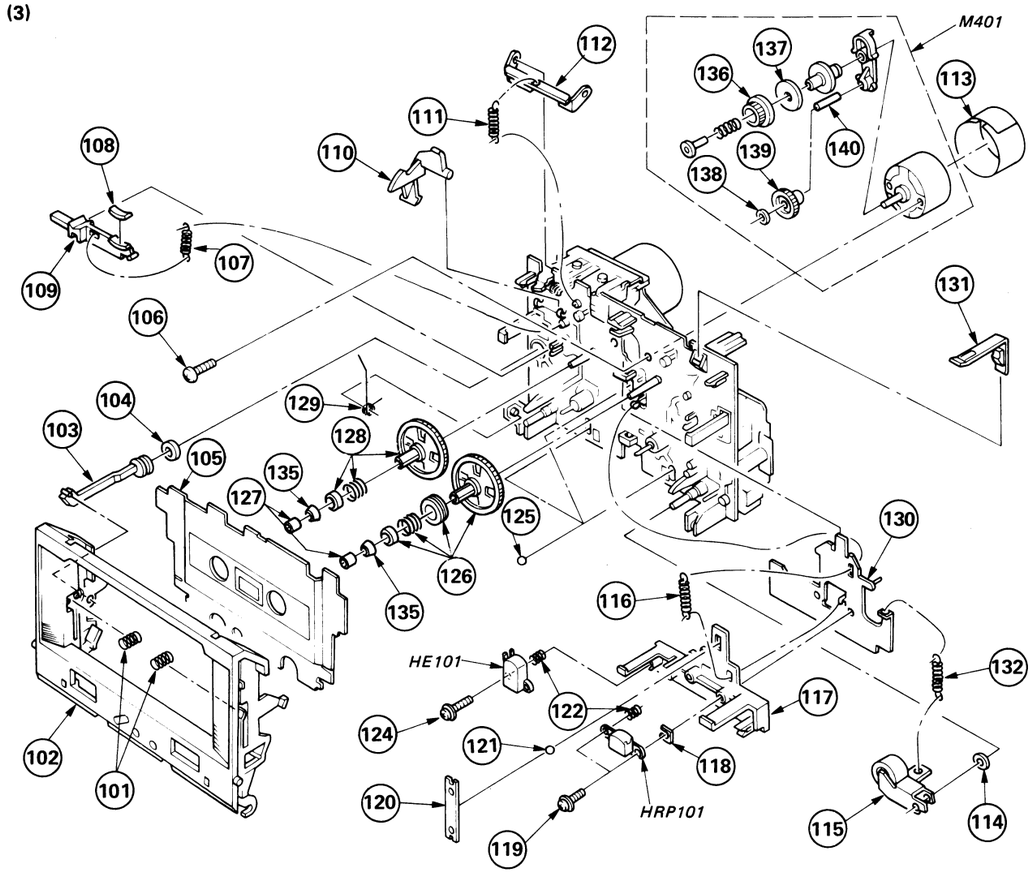


No.	Part No.	Description	Remarks
51	3-304-419-31	(BLACK)....BUTTON, EJECT	
	3-304-419-71	(SILVER)...BUTTON, EJECT	
52	3-701-690-11	(UK)...LABEL, MADE IN JAPAN	
53	X-3318-925-1	(US,Canadian:BLACK)....PANEL ASSY, FRONT	
	X-3318-926-1	(US,Canadian:SILVER)...PANEL ASSY, FRONT	
	X-3318-923-1	(UK,E:SILVER)...PANEL ASSY, FRONT	
	X-3318-924-1	(UK,E:BLACK)....PANEL ASSY, FRONT	
54	*4-902-831-01	JOINT (G), KNOB	
55	3-318-911-61	(SILVER)...KNOB (POWER.L), T MOLD	
	3-318-911-71	(BLACK)....KNOB (POWER.L), T MOLD	
56	*3-318-967-01	BRACKET (B), MD	
57	*3-318-962-01	SLIDER, EJECT	
58	3-540-244-00	SPRING, TENSION	
59	7-685-546-01	SCREW +BTP 3X8 TYPE1	
60	3-577-029-00	BELT, SQUARE	
61	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
62	*3-307-350-00	PULLEY (N), MOTOR	
63	3-558-708-11	WASHER, STOPPER	
64	X-3318-921-1	(SILVER)...BLOCK ASSY, FUNCTION BUTTON	
	X-3318-922-1	(BLACK)....BLOCK ASSY, FUNCTION BUTTON	
65	7-685-547-01	SCREW +BTP 3X10 TYPE1	
66	3-318-978-01	HOLDER, METER	
67	3-318-989-01	SPACER (B), LED	
68	*3-318-941-01	SPACER, LED	
71	3-318-964-02	(SILVER)...HOLDER, REC VOL	
	3-318-964-12	(BLACK)....HOLDER, REC VOL	
72	*3-318-974-01	BRACKET, REC VOL	
74	3-318-986-01	BUTTON, REC VOL	
75	*3-318-976-01	BRACKET, CASE	
77	7-621-775-10	SCREW +B 2.6X4	
78	*X-3318-910-1	BRACKET (C) ASSY, MD	
902	1-548-574-31	COUNTER, TAPE (NORMAL TYPE)	
908	*A-2056-273-A	PC BOARD ASSY, AUDIO, MOUNTED (INCLUDING REC VOL,HEADPHONES JACK,PHOTO COUPLER,POWER SWITCH, REMOTE CONTROL,METER AND PIN JACK BOARDS)	

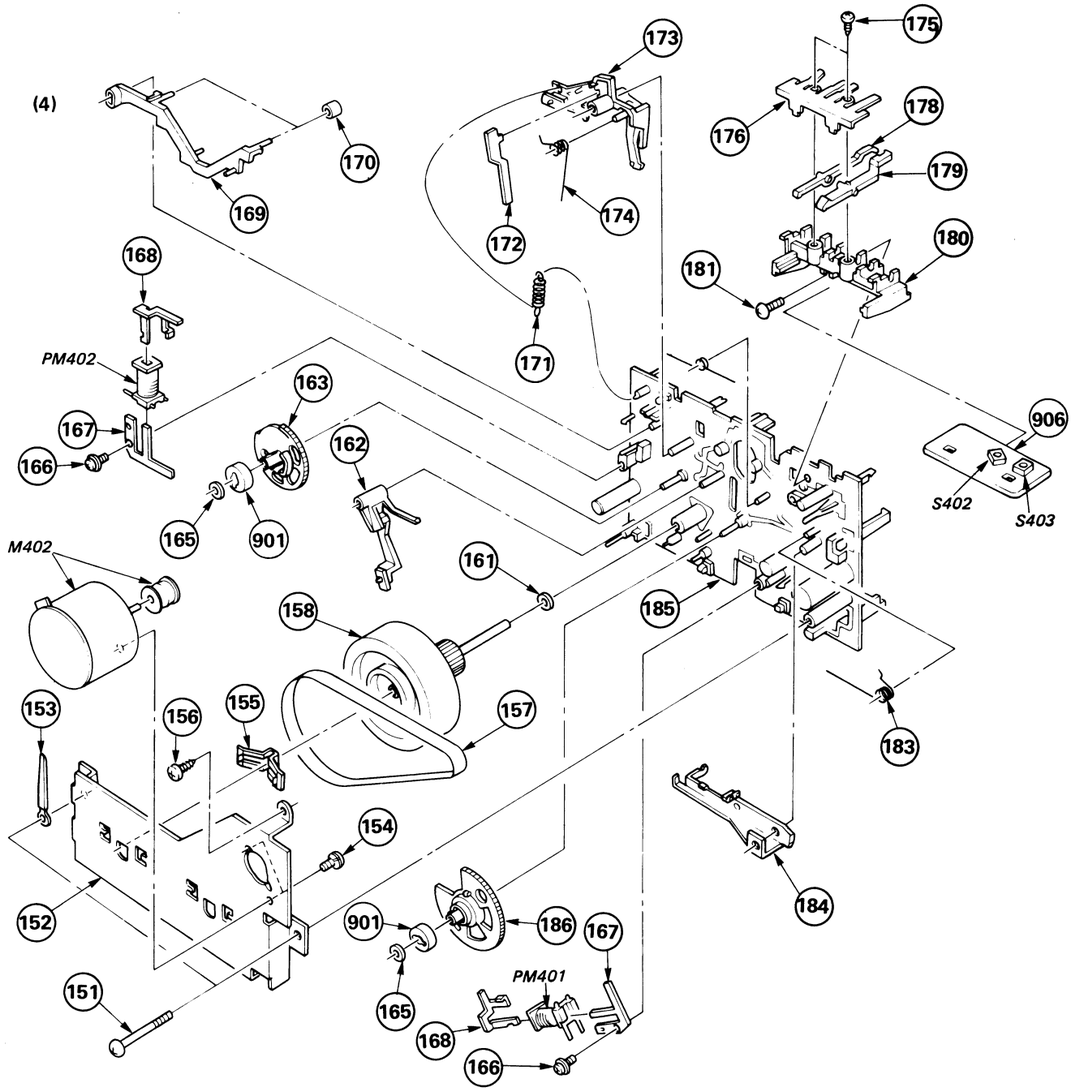
(3)

No.	Part No.
102	3-319-68
103	3-319-61
104	3-312-44
105	3-313-29
106	7-621-77
107	3-319-69
108	3-575-34
109	*3-319-61
110	3-319-66
111	3-312-43
112	*3-319-70
113	3-575-45
114	7-623-92
115	X-3319-62
116	3-319-71
117	3-319-71
118	3-319-71
	3-319-71
119	3-319-71

(3)



(4)



Remarks	No.	Part No.	Description	Remarks
N BUTTON	102	3-319-682-01	HOLDER, CASSEETTE	
N BUTTON	103	3-319-613-01	PISTON (B)	
	104	3-312-441-00	RING, PISTON	
	105	3-313-292-21	RETAINER, CASSETTE	
	106	7-621-775-60	SCREW +B 2.6X12	
	107	3-319-694-01	SPRING, TENSION	
	108	3-575-346-01	FELT, BRAKE	
	109	*3-319-611-01	LEVER (LEFT), BACK TENSION	
	110	3-319-669-01	LEVER, EJECT	
	111	3-312-432-00	SPRING, TENSION	
	112	*3-319-709-01	LEVER (B), LIFT, SWITCH	
	113	3-575-457-00	PLATE (B), SHIELD, MOTOR	
	114	7-623-924-11	WASHER 3.0, NYLONE	
	115	X-3319-625-1	PINCH LEVER ASSY	
(INCLUDING	116	3-319-713-01	SPRING, TENSION	
ER SWITCH,	117	3-319-715-01	BRACKET, HEAD	
CK BOARDS)	118	3-319-718-01	SHIM, ADJUSTMENT, HEAD	
		3-319-718-11	SHIM, ADJUSTMENT, HEAD	
	119	3-319-719-01	SCREW, TOOTHED LOCK (+- 2X13)	

No.	Part No.	Description	Remarks
120	*3-319-601-11	SPRING	
121	7-671-112-11	BALL, STEEL	
122	3-319-712-01	SPRING, COMPRESSION	
123	*X-3319-624-1	CHASSIS (S) ASSY, HEAD	
124	3-703-496-00	SCREW + PWH2X14	
125	7-671-112-01	BALL, STEEL	
126	X-3319-626-1	TABLE (L) ASSY, REEL	
127	3-319-607-01	BUSHING, REEL TABLE	
128	X-3319-627-1	TABLE (L) (CB) ASSY, REEL	
129	3-319-614-01	SPRING	
131	3-319-717-01	SPRING	
132	3-319-711-01	SPRING, TENSION	
135	3-531-760-00	CLAW, REEL SPINDLE	
136	3-575-324-00	GEAR, LIMITER	
137	3-564-027-11	FELT, LIMITER	
138	3-307-394-00	RETAINER (B), THRUST	
139	3-575-332-00	GEAR, FR	
140	3-575-304-00	SHAFT, GEAR, FR	

No.	Part No.	Description	Remarks
151	7-685-879-01	SCREW +BVTT 3X30 (S)	
152	*3-319-665-01	RETAINER, THRUST	
153	3-703-150-11	CLAMP	
155	3-319-608-01	RETAINER, THRUST	
156	7-685-645-11	SCREW +BVTP 3X6 TYPE2 N-S	
157	3-319-710-01	BELT (R), CAPSTAN	
158	X-3319-630-	FLYWHEEL (T) ASSY	
161	3-307-482-00	WASHER, LUMILER	
162	*X-3319-615-1	LEVER ASSY, FWD LOCK	
163	3-319-688-01	GEAR, PAUSE CAM	
165	3-307-394-00	RETAINER (B), THRUST	
166	7-687-204-21	TOTSU PTPWH 2X6 NON-SLIT, TYPE2	
167	3-307-332-00	ARBOR, FIXED	
168	3-307-333-00	ARBOR, TRIGGER	
169	*3-319-668-01	PLATE, BRAKE	
170	3-319-662-01	RUBBER, BRAKE	

No.	Part No.	Description	Remarks
171	3-555-124-00	SPRING, TENSION	
172	3-319-612-01	SPRING	
173	*X-3319-614-1	LEVER ASSY, PAUSE	
174	3-319-606-01	SPRING	
175	7-685-131-21	SCREW +P 2.6X4 TYPE2 SLIT	
176	3-319-602-01	SPRING	
178	3-319-603-01	LEVER, REC DETECTION	
179	3-319-604-01	LEVER, HALF DETECTION	
180	3-319-670-01	HOLDER, SWITCH, DETECTION	
181	7-685-865-01	SCREW +BVTT 2.6X12 (S)	
182	3-319-649-01	SPRING	
183	3-319-633-01	SPRING	
184	*3-319-676-11	LEVER, FWD	
185	X-3319-628-1	CHASSIS ASSY, MECHANICAL	
186	3-319-689-01	GEAR, FWD CAM	
901	1-452-202-00	MAGNET	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	1-452-202-00	MAGNET
902	1-548-574-31	COUNTER, TAPE (NORMAL TYPE)
903	⚠.1-551-472-00	(E).....CORD, POWER
	⚠.1-551-908-11	(AEP)...CORD, POWER
	⚠.1-556-562-00	(UK)....CORD, POWER
	⚠.1-551-628-00	(US,Canadian)...CORD, POWER
907	*1-615-664-11	PC BOARD, CONTROL SWITCH
908	*A-2056-273-A	PC BOARD ASSY, AUDIO, MOUNTED (INCLUDING REC VOL,HEADPHONES JACK,PHOTO COUPLER,POWER SWITCH, REMOTE CONTROL,METER AND PIN JACK BOARDS)

Ref.No.	Part No.	Description			
C101	1-123-380-00	ELECT	1MF	20%	50V
C102	1-162-290-31	CERAMIC	470PF	10%	50V
C103	1-123-380-00	ELECT	1MF	20%	50V
C104	1-123-356-00	ELECT	10MF	20%	16V
C105	1-110-203-00	MYLAR	0.0047MF	5%	50V
C106	1-136-173-00	FILM	0.47MF	5%	50V
C107	1-136-167-00	FILM	0.15MF	5%	50V
C108	1-136-155-00	FILM	0.015MF	5%	50V
C109	1-136-169-00	FILM	0.22MF	5%	50V
C110	1-136-163-00	FILM	0.068MF	5%	50V
C111	1-136-161-00	FILM	0.047MF	5%	50V
C112	1-110-205-00	MYLAR	0.0068MF	5%	50V
C113	1-136-153-00	FILM	0.01MF	5%	50V
C114	1-123-369-00	ELECT	4.7MF	20%	50V
C115	1-123-379-00	ELECT	0.47MF	20%	50V
C116	1-124-185-00	ELECT	4.7MF	20%	50V
C117	1-161-321-00	CERAMIC	680PF	10%	50V
C118	1-136-157-00	FILM	0.022MF	5%	50V
C119	1-124-184-00	ELECT	3.3MF	20%	50V
C120	1-110-203-00	MYLAR	0.0047MF	5%	50V
C122	1-123-381-00	ELECT	2.2MF	20%	50V
C123	1-123-330-00	ELECT	22MF	20%	16V
C124	1-124-185-00	ELECT	4.7MF	20%	50V
C125	1-107-036-00	MICA	68PF	5%	500V
C126	1-161-318-00	CERAMIC	390PF	10%	50V
C127	1-107-165-00	MICA	56PF	5%	500V
C128	1-136-153-00	FILM	0.01MF	5%	50V
C129	1-110-199-00	MYLAR	0.0022MF	5%	50V
C131	1-136-156-00	FILM	0.018MF	5%	50V
C132	1-136-153-00	FILM	0.01MF	5%	50V
C133	1-123-380-00	ELECT	1MF	20%	50V
C134	1-123-381-00	ELECT	2.2MF	20%	50V
C135	1-123-380-00	ELECT	1MF	20%	50V
C136	1-123-356-00	ELECT	10MF	20%	16V
C137	1-162-282-31	CERAMIC	100PF	10%	50V
C139	1-161-330-00	CERAMIC	0.01MF	30%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C140	1-162-282-31	CERAMIC	100PF	10%	50V
C301	1-123-356-00	ELECT	10MF	20%	16V
C302	1-123-356-00	ELECT	10MF	20%	16V
C303	1-123-381-00	ELECT	2.2MF	20%	50V
C311	1-123-356-00	ELECT	10MF	20%	16V
C312	1-129-708-00	FILM	0.0033MF	10%	630V
C313	1-130-291-00	FILM	0.0056MF	5%	100V
C314	1-130-285-00	FILM	0.0033MF	5%	100V
C315	1-130-285-00	FILM	0.0033MF	5%	100V
C316	1-123-381-00	ELECT	2.2MF	20%	50V
C317	1-123-379-00	ELECT	0.47MF	20%	50V
C318	1-123-306-00	ELECT	47MF	20%	10V
C320	1-123-369-00	ELECT	4.7MF	20%	50V
C321	1-123-356-00	ELECT	10MF	20%	16V
C322	1-161-330-00	CERAMIC	0.01MF	30%	25V
C324	1-162-113-00	CERAMIC	0.01MF	30%	16V
C401	1-110-203-00	MYLAR	0.0047MF	5%	50V
C402	1-123-381-00	ELECT	2.2MF	20%	50V
C403	1-162-284-31	CERAMIC	150PF	10%	50V
C404	1-162-284-31	CERAMIC	150PF	10%	50V
C406	1-162-294-31	CERAMIC	0.001MF	10%	50V
C407	1-123-380-00	ELECT	1MF	20%	50V
C410	1-123-356-00	ELECT	10MF	20%	16V
C411	1-123-356-00	ELECT	10MF	20%	16V
C415	1-123-322-00	ELECT	330MF	20%	16V
C416	1-162-113-00	CERAMIC	0.01MF	30%	16V
C417	1-162-113-00	CERAMIC	0.01MF	30%	16V
C418	1-162-113-00	CERAMIC	0.01MF	30%	16V
C501	1-123-311-00	ELECT	1000MF	20%	10V
C503	1-123-318-00	ELECT	33MF	20%	16V
C504	1-123-324-00	ELECT	1000MF	20%	16V
C505	1-123-310-00	ELECT	470MF	20%	10V
C506	1-123-318-00	ELECT	33MF	20%	16V
C507	1-123-324-00	ELECT	1000MF	20%	16V

CN301	*1-564-509-11	PLUG, CONNECTOR 6P
CN302	*1-564-505-11	PLUG, CONNECTOR 2P
CN401	*1-564-511-11	PLUG, CONNECTOR 8P
CN404	*1-564-337-00	PIN, CONNECTOR 3P
CN406	*1-564-507-31	PLUG, CONNECTOR 4P
CN407	*1-564-507-11	PLUG, CONNECTOR 4P
CN410	*1-560-280-00	CONNECTOR PIN 3P
CN411	*1-560-039-00	PIN, CONNECTOR
CN412	*1-560-039-00	PIN, CONNECTOR
CT101	1-141-225-00	CAP, TUNING, TRIMMER
CT201	1-141-225-00	CAP, TUNING, TRIMMER

MC-Service

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D101	1-806-967-11	DIODE (LED BLOCK)
D102	1-806-968-11	DIODE (LED BLOCK)
D201	1-806-967-11	DIODE (LED BLOCK)
D202	1-806-968-11	DIODE (LED BLOCK)
D301	8-719-107-94	DIODE 1SS202-1
D302	8-719-107-94	DIODE 1SS202-1
D401	8-719-107-94	DIODE 1SS202-1
D402	8-719-107-94	DIODE 1SS202-1
D406	8-719-107-94	DIODE 1SS202-1
D407	8-719-107-94	DIODE 1SS202-1
D411	8-719-915-51	DIODE GL-9PG4
D412	8-719-919-04	DIODE GL-9PR4
D413	8-719-915-50	DIODE GL-9HY4
D416	8-719-107-94	DIODE 1SS202-1
D419	8-719-910-66	DIODE HZ6B3L
D420	8-719-200-02	DIODE 10E2
D501	8-719-910-63	DIODE HZ6A3L
D502	8-719-200-23	DIODE 11E2
D503	8-719-200-23	DIODE 11E2
D504	8-719-200-23	DIODE 11E2
D505	8-719-200-23	DIODE 11E2
F101	1-231-388-00	FILTER, LOW PASS
F102	1-235-186-00	ENCAPSULATED COMPONENT
F201	1-231-388-00	FILTER, LOW PASS
F202	1-235-186-00	ENCAPSULATED COMPONENT
FR501	1-217-422-00	FUSIBLE 1 5% 1/2W F
FR502	1-217-422-00	FUSIBLE 1 5% 1/2W F
HE101	8-825-724-00	HEAD, ERASE EF-201-36
HRP101	8-825-507-80	HEAD (PP227-3602F)
IC101	8-759-912-79	IC IR2E02
IC201	8-759-912-79	IC IR2E02
IC301	8-759-600-02	IC M5218L
IC302	8-752-018-70	IC CX20187
IC303	8-759-600-02	IC M5218L
IC304	8-759-101-55	IC CX10032A
IC401	8-759-204-46	IC TC9310N-071
IC402	8-759-602-47	IC M50761-417P
J101	1-507-909-11	JACK, PIN 4P (LINE IN L)
J102	1-507-909-11	JACK, PIN 4P (LINE OUT L)
J201	1-507-909-11	JACK, PIN 4P (LINE IN R)
J202	1-507-909-11	JACK, PIN 4P (LINE OUT R)
J301	1-507-797-21	JACK, LARGE TYPE (MIC)
J302	1-507-982-11	JACK (LARGE TYPE)(HEADPHONES)
L101	1-408-923-00	MICRO INDUCTOR 8.2MMH
L102	1-408-930-00	MICRO INDUCTOR 33MMH
L201	1-408-923-00	MICRO INDUCTOR 8.2MMH
L202	1-408-930-00	MICRO INDUCTOR 33MMH
M401	X-3319-612-1	MOTOR ASSY, REEL
M402	1-541-239-00	MOTOR
PM401	1-454-316-00	SOLENOID, PLUNGER
PM402	1-454-316-00	SOLENOID, PLUNGER
PI401	8-719-902-90	PHOTO INTERRUPTOR SPI201-20

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q101	8-729-102-03	TRANSISTOR 2SD1020
Q102	8-729-900-80	TRANSISTOR DTC114ES
Q103	8-729-606-33	TRANSISTOR 2SC2603F
Q201	8-729-102-03	TRANSISTOR 2SD1020-H
Q202	8-729-900-80	TRANSISTOR DTC114ES
Q203	8-729-606-33	TRANSISTOR 2SC2603F
Q301	8-729-194-57	TRANSISTOR 2SC945
Q302	8-729-194-57	TRANSISTOR 2SC945
Q303	8-729-606-33	TRANSISTOR 2SC2603F
Q304	8-729-900-61	TRANSISTOR DTA114ES
Q305	8-729-900-61	TRANSISTOR DTA114ES
Q306	8-729-606-33	TRANSISTOR 2SC2785
Q307	8-729-117-54	TRANSISTOR 2SA1175
Q401	8-729-900-80	TRANSISTOR DTC114ES
Q402	8-729-900-65	TRANSISTOR DTA114ES
Q403	8-729-900-80	TRANSISTOR DTC114ES
Q404	8-729-900-80	TRANSISTOR DTC114ES
Q405	8-729-117-54	TRANSISTOR 2SA1175
Q407	8-729-800-83	TRANSISTOR 2SB808
Q408	8-729-800-83	TRANSISTOR 2SB808
Q409	8-729-177-43	TRANSISTOR 2SD774
Q410	8-729-177-43	TRANSISTOR 2SD774
Q411	8-729-900-80	TRANSISTOR DTC114ES
Q412	8-729-177-43	TRANSISTOR 2SD774
Q417	8-729-900-80	TRANSISTOR DTC114ES
Q418	8-729-900-80	TRANSISTOR DTC114ES
Q419	8-729-900-85	TRANSISTOR DTA144WS
Q501	8-729-180-92	TRANSISTOR 2SD809-K
Q502	8-729-606-33	TRANSISTOR 2SC2603F
Q503	8-729-173-13	TRANSISTOR 2SB731
Q504	8-729-117-54	TRANSISTOR 2SA1175
Q505	8-729-811-24	TRANSISTOR 2SD1012
Q506	8-729-800-83	TRANSISTOR 2SB808

R101	1-247-867-00	CARBON	33K	5%	1/6W
R103	1-247-855-00	CARBON	10K	5%	1/6W
R104	1-247-819-00	CARBON	330	5%	1/6W
R105	1-247-865-00	CARBON	27K	5%	1/6W
R106	1-247-871-00	CARBON	47K	5%	1/6W
R107	1-247-843-00	CARBON	3.3K	5%	1/6W
R108	1-247-851-00	CARBON	6.8K	5%	1/6W
R109	1-247-822-00	CARBON	430	5%	1/6W
R110	1-247-847-00	CARBON	4.7K	5%	1/6W
R111	1-247-840-00	CARBON	2.4K	5%	1/6W
R112	1-247-851-00	CARBON	6.8K	5%	1/6W
R113	1-247-827-00	CARBON	680	5%	1/6W
R114	1-249-421-11	CARBON	2.2K	5%	1/6W
R115	1-247-855-00	CARBON	10K	5%	1/6W
R116	1-247-847-00	CARBON	4.7K	5%	1/6W
R117	1-247-863-00	CARBON	22K	5%	1/6W
R118	1-249-421-11	CARBON	2.2K	5%	1/6W
R119	1-249-421-11	CARBON	2.2K	5%	1/6W
R120	1-247-831-00	CARBON	1K	5%	1/6W
R121	1-247-833-00	CARBON	1.2K	5%	1/6W
R122	1-249-421-11	CARBON	2.2K	5%	1/6W
R123	1-247-840-00	CARBON	2.4K	5%	1/6W
R124	1-247-116-00	CARBON	240	5%	1/4W
R125	1-246-529-00	CARBON	220K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R126	1-247-107-00	CARBON	100	5%	1/4W
R127	1-246-524-00	CARBON	130K	5%	1/4W
R128	1-247-149-00	CARBON	5.6K	5%	1/4W
R129	1-247-863-00	CARBON	22K	5%	1/6W
R130	1-247-857-00	CARBON	12K	5%	1/6W
R131	1-247-858-00	CARBON	13K	5%	1/6W
R132	1-247-887-00	CARBON	220K	5%	1/6W
R133	1-247-821-00	CARBON	390	5%	1/6W
R135	1-247-831-00	CARBON	1K	5%	1/6W
R136	1-247-879-00	CARBON	100K	5%	1/6W
R137	1-247-859-00	CARBON	15K	5%	1/6W
R140	1-247-837-00	CARBON	1.8K	5%	1/6W
R141	1-247-815-00	CARBON	220	5%	1/6W
R142	1-249-421-11	CARBON	2.2K	5%	1/6W
R143	1-247-855-00	CARBON	10K	5%	1/6W
R144	1-247-859-00	CARBON	15K	5%	1/6W
R145	1-247-847-00	CARBON	4.7K	5%	1/6W
R146	1-247-879-00	CARBON	100K	5%	1/6W
R147	1-247-861-00	CARBON	18K	5%	1/6W
R148	1-247-878-00	CARBON	91K	5%	1/6W
R149	1-247-879-00	CARBON	100K	5%	1/6W
R150	1-247-855-00	CARBON	10K	5%	1/6W
R151	1-247-855-00	CARBON	10K	5%	1/6W
R155	1-247-841-00	CARBON	2.7K	5%	1/6W
R301	1-247-879-00	CARBON	100K	5%	1/6W
R302	1-247-883-00	CARBON	150K	5%	1/6W
R303	1-247-831-00	CARBON	1K	5%	1/6W
R304	1-247-831-00	CARBON	1K	5%	1/6W
R307	1-247-847-00	CARBON	4.7K	5%	1/6W
R308	1-247-835-00	CARBON	1.5K	5%	1/6W
R309	1-247-773-00	CARBON	3.9	5%	1/6W
R310	1-247-861-00	CARBON	18K	5%	1/6W
R311	1-247-861-00	CARBON	18K	5%	1/6W
R312	1-247-855-00	CARBON	10K	5%	1/6W
R313	1-247-858-00	CARBON	13K	5%	1/6W
R314	1-247-855-00	CARBON	10K	5%	1/6W
R315	1-247-840-00	CARBON	2.4K	5%	1/6W
R316	1-247-847-00	CARBON	4.7K	5%	1/6W
R317	1-247-879-00	CARBON	100K	5%	1/6W
R318	1-247-843-00	CARBON	3.3K	5%	1/6W
R319	1-247-861-00	CARBON	18K	5%	1/6W
R320	1-247-843-00	CARBON	3.3K	5%	1/6W
R321	1-247-855-00	CARBON	10K	5%	1/6W
R322	1-247-815-00	CARBON	220	5%	1/6W
R323	1-247-823-00	CARBON	470	5%	1/6W
R324	1-247-823-00	CARBON	470	5%	1/6W
R401	1-247-872-00	CARBON	51K	5%	1/6W
R402	1-247-863-00	CARBON	22K	5%	1/6W
R405	1-247-841-00	CARBON	2.7K	5%	1/6W
R406	1-247-903-00	CARBON	1M	5%	1/6W
R408	1-247-861-00	CARBON	18K	5%	1/6W
R409	1-247-857-00	CARBON	12K	5%	1/6W
R410	1-247-861-00	CARBON	18K	5%	1/6W
R411	1-247-807-00	CARBON	100	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R412	1-247-783-00	CARBON	10	5%	1/6W
R413	1-247-819-00	CARBON	330	5%	1/6W
R414	1-247-879-00	CARBON	100K	5%	1/6W
R415	1-247-855-00	CARBON	10K	5%	1/6W
R425	1-247-831-00	CARBON	1K	5%	1/6W
R426	1-247-831-00	CARBON	1K	5%	1/6W
R427	1-247-821-00	CARBON	390	5%	1/6W
R428	1-247-849-00	CARBON	5.6K	5%	1/6W
R429	1-247-819-00	CARBON	330	5%	1/6W
R430	1-247-831-00	CARBON	1K	5%	1/6W
R431	1-247-831-00	CARBON	1K	5%	1/6W
R434	1-247-863-00	CARBON	22K	5%	1/6W
R435	1-247-815-00	CARBON	220	5%	1/6W
R436	1-247-821-00	CARBON	390	5%	1/6W
R437	1-247-821-00	CARBON	390	5%	1/6W
R439	1-247-863-00	CARBON	22K	5%	1/6W
R440	1-247-855-00	CARBON	10K	5%	1/6W
R445	1-247-879-00	CARBON	100K	5%	1/6W
R446	1-247-831-00	CARBON	1K	5%	1/6W
R501	1-247-143-00	CARBON	3.3K	5%	1/4W
R502	1-247-125-00	CARBON	560	5%	1/4W
R503	1-247-131-00	CARBON	1K	5%	1/4W
R504	1-247-131-00	CARBON	1K	5%	1/4W
R505	1-247-141-00	CARBON	2.7K	5%	1/4W
R506	1-247-131-00	CARBON	1K	5%	1/4W
R507	1-247-131-00	CARBON	1K	5%	1/4W
R508	1-247-133-00	CARBON	1.2K	5%	1/4W

RV101	1-230-713-21	RES, VAR, SLIDE 20K/20K
RV102	1-228-994-00	RES, ADJ, CARBON 10K
RV104	1-228-994-00	RES, ADJ, CARBON 10K
RV201	1-230-713-21	RES, VAR, SLIDE 20K/20K
RV202	1-228-994-00	RES, ADJ, CARBON 10K
RV204	1-228-994-00	RES, ADJ, CARBON 10K
RY301	1-515-547-11	RELAY
S301	1-570-252-11	SWITCH, PUSH (5 KEY)
S302	1-570-252-11	SWITCH, PUSH (5 KEY)
S303	1-570-252-11	SWITCH, PUSH (5 KEY)
S304	1-570-252-11	SWITCH, PUSH (5 KEY)
S305	1-570-252-11	SWITCH, PUSH (5 KEY)
S405	1-554-303-00	SWITCH, KEY BOARD (REC)
S406	1-554-303-00	SWITCH, KEY BOARD (FWD)
S407	1-554-303-00	SWITCH, KEY BOARD (REW)
S408	1-554-303-00	SWITCH, KEY BOARD (FF)
S409	1-554-303-00	SWITCH, KEY BOARD (PAUSE)
S410	1-554-303-00	SWITCH, KEY BOARD (REC MUTE)
S411	1-554-303-00	SWITCH, KEY BOARD (STOP)
S501	1-570-103-11	SWITCH, PUSH (1 KEY)
S502 ⚠	1-570-307-00	(E)...SWITCH, SLIDE (VOLTAGE SELECT)
T301	1-433-298-11	TRANSFORMER, BIAS OSCILLATION
T401 ⚠	1-448-154-11	(US,Canadian)...TRANSFORMER, POWER
T401 ⚠	1-448-155-11	(AEP,UK).....TRANSFORMER, POWER
T401 ⚠	1-448-156-11	(E).....TRANSFORMER, POWER
X401	1-527-532-00	OSCILLATOR, CERAMIC

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
201	1-551-734-11	CORD, CONNECTION (RK- 74A)
202	1-556-372-41	CORD, CONNECTION (4 CORE)
203	3-318-958-01	CUSHION (LEFT), LOWER
204	3-760-448-11	(Canadian,AEP,UK,E)...MANUAL, INSTRUCTION
204	3-760-448-21	(US)....MANUAL, INSTRUCTION
204	3-760-448-41	(Canadian,AEP)...MANUAL, INSTRUCTION
205	3-318-959-01	CUSHION (RIGHT), LOWER
206	3-318-960-01	CUSHION (LEFT), UPPER
207	3-318-961-01	CUSHION (RIGHT), UPPER
208	3-318-988-01	INDIVIDUAL CARTON
209	3-701-630-00	BAG, POLYETHYLENE
210	3-703-895-01	(Canadian,AEP:BLACK)....LABEL, COLOR
211	3-703-906-01	(Canadian,AEP:SILVER)...LABEL, COLOR
212	4-876-352-00	SHEET, PROTECTION
213	8-890-454-10	(Canadian)...TAPE (UCX-S)

MC-Service

Sony Corporation

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